MDR-IF610

SERVICE MANUAL

US Model
Canadian Model
UK Model
AEP Model
E Model
Tourist Model

SPECIFICATIONS

Modulation system	Frequency modulation
Carrier frequency	Right 2.8 MHz Left 2.3 MHz
Effective range	Up to approx. 9 m (29 ft.) (When useing with the TMR-IF33)
Frequency response	18 – 22,000 Hz
Distortion	Less than 1% at 1 kHz
Power source	Built-in Ni-Cd rechargeable battery
Mass	Approx. 360 g

Supplied accessories
AC power adaptor (1)

Design and specification are subject to change without notice.

使用時は添付資料も参照のこと
Refer to the additional documents

CORDLESS STEREO HEADPHONES

SONY®

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SERVICING NOTE

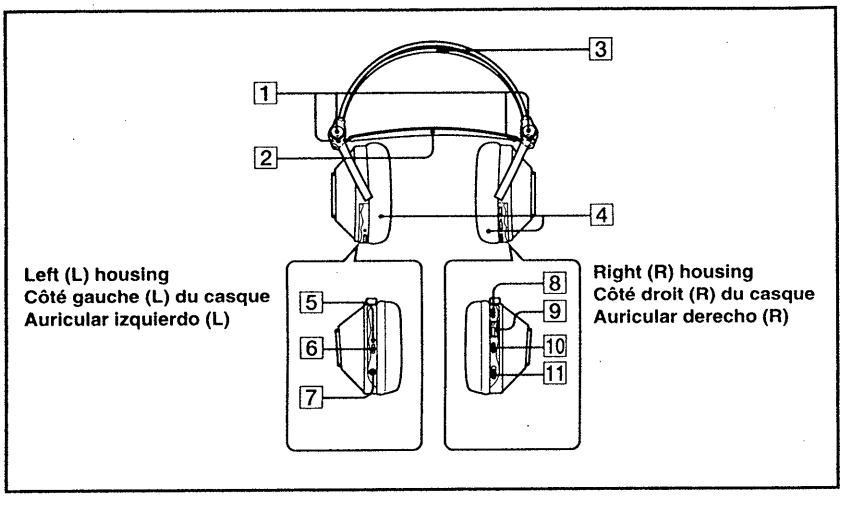
Notes on chip component replacement

- Never reuse a disconnected chip component.
- Notice that the minus side of a tantalum capacitor may be damaged by heat.

SECTION 1
GENERAL

This section is extracted from instruction manual.

Parts Identification



1 **Infrared sensors**
2 **Suspender**
3 **Head band**
4 **Ear pads**

Left (L) housing
5 **Charging indicator**
6 **Quick charge switch**
7 **DC IN 9V jack**

Right (R) housing
8 **VOL control**
Adjusts the volume level of the left and right channels simultaneously.
9 **POWER switch/indicator**
The indicator lights up when the headphones turns on.
10 **BALANCE control**
11 **AVLS selector**

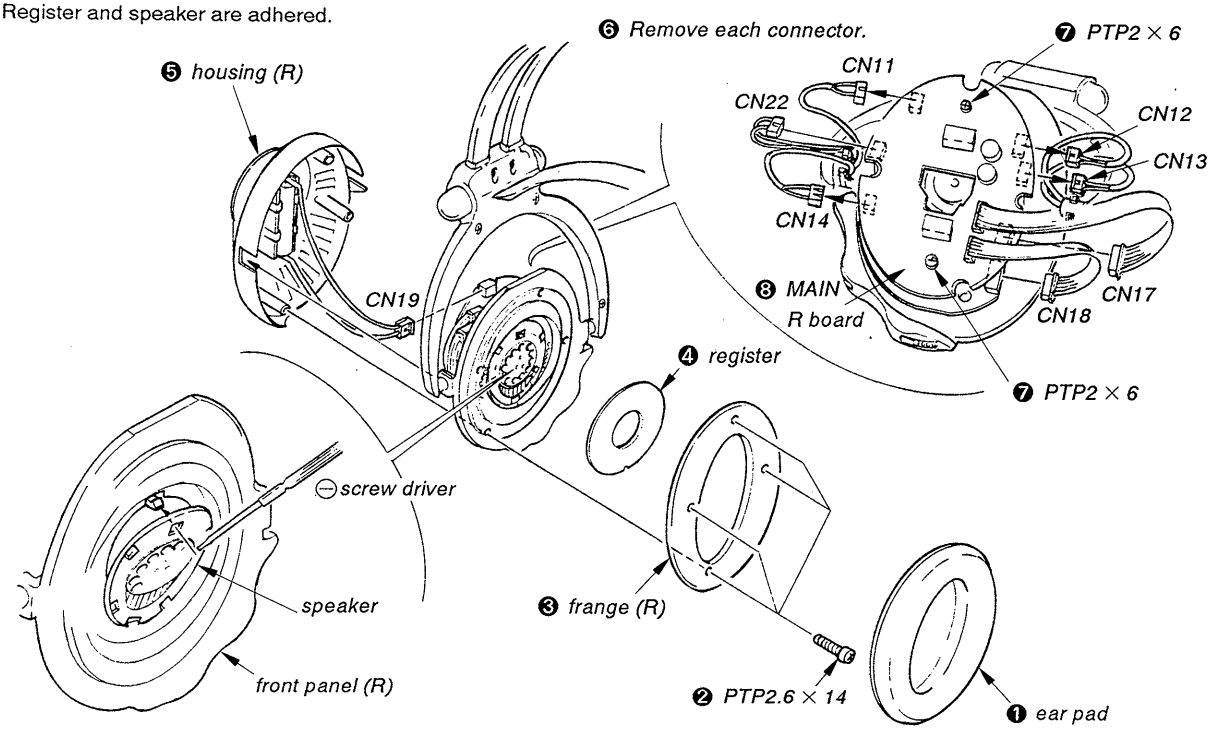
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

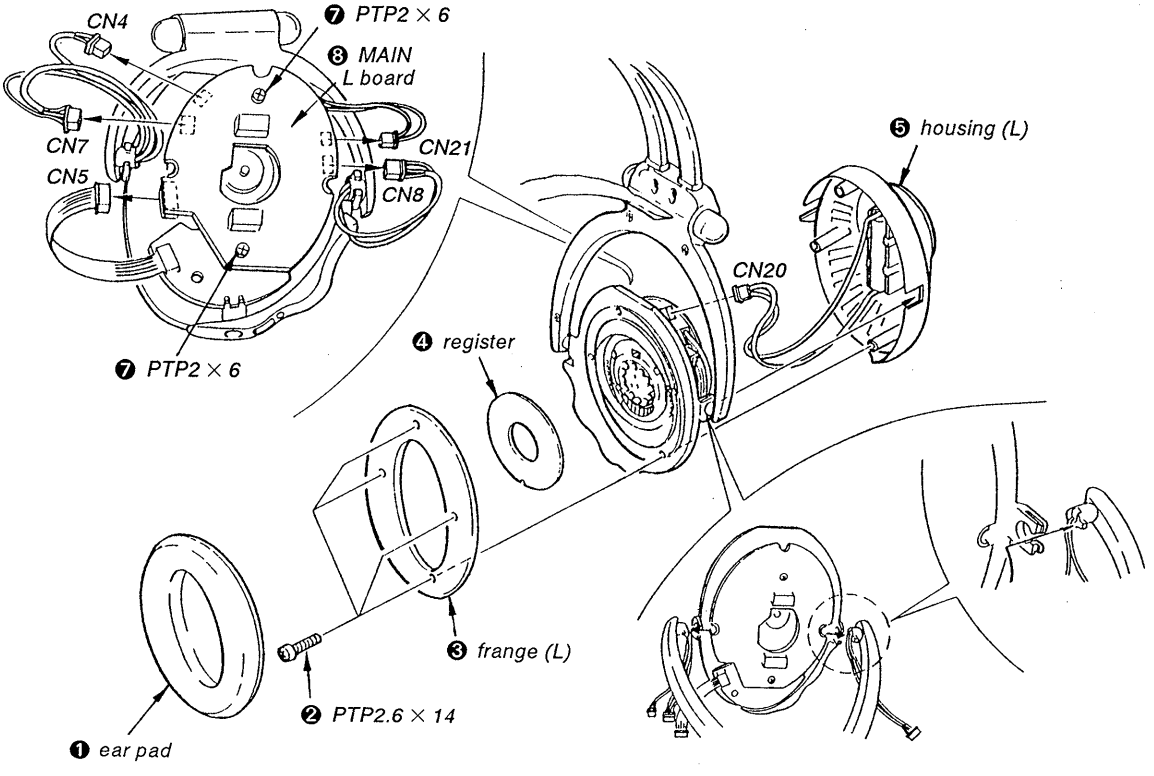
FRONT PANEL, HOUSING, MAIN BOARD

– R-CH –

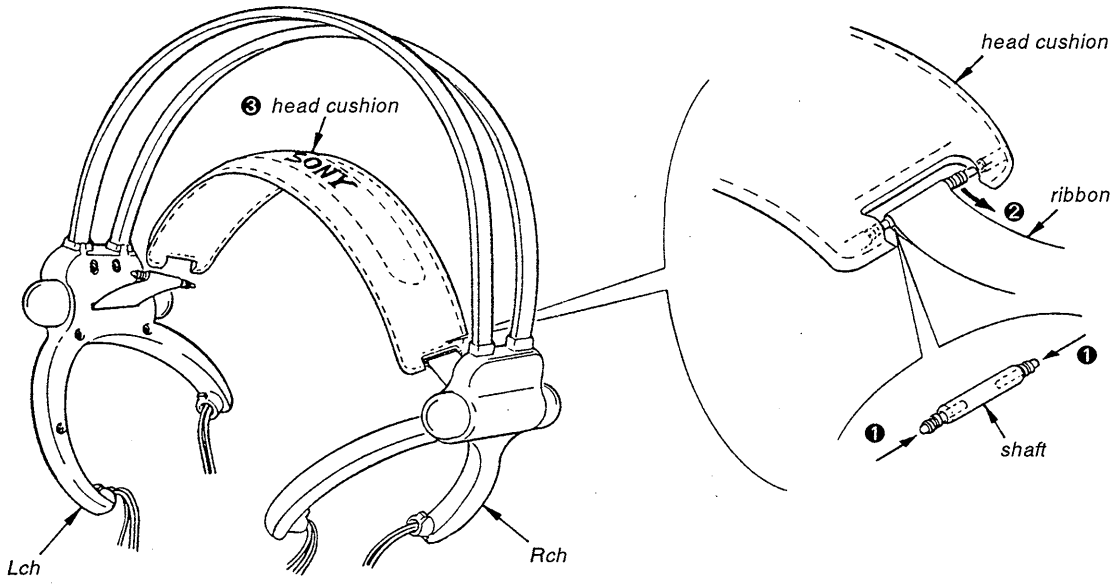
Note: Register and speaker are adhered.



– L-CH – ❻ *Remove each connector.*



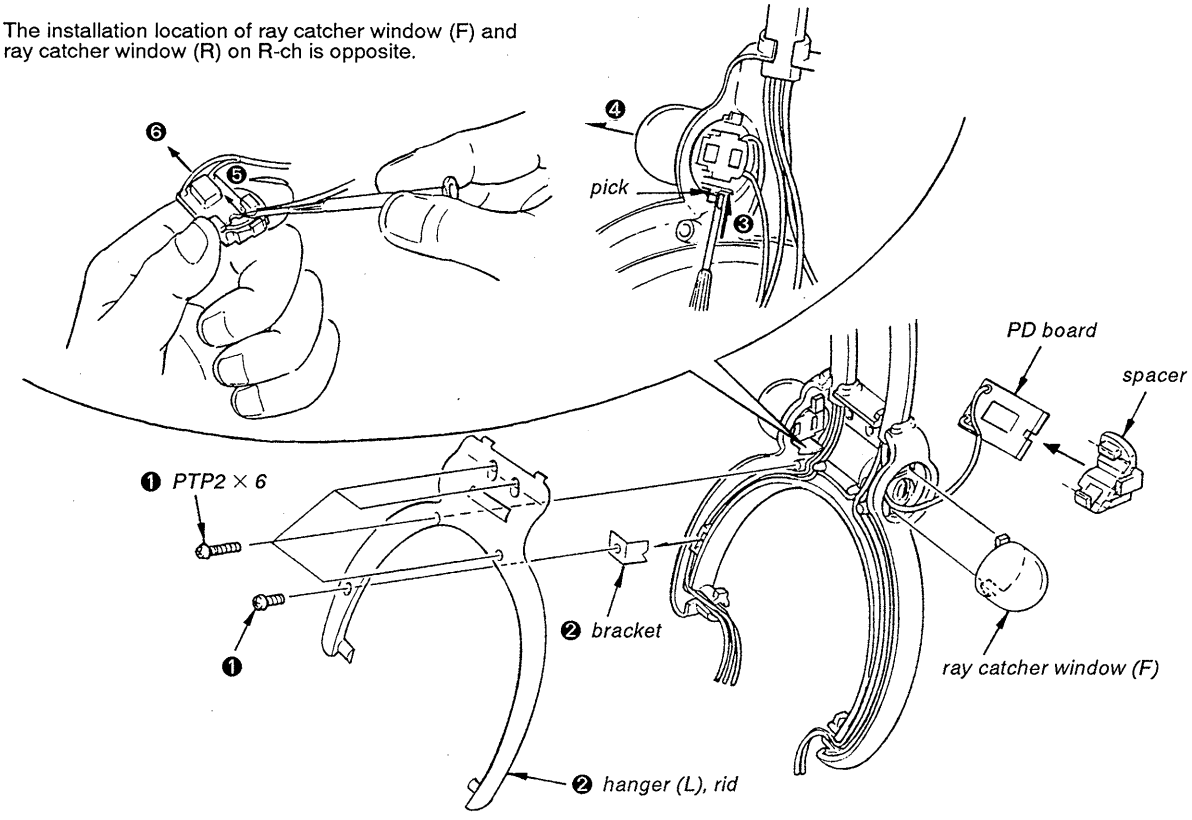
HEAD CUSHION



RAY CATCHER WINDOW, PD BOARD

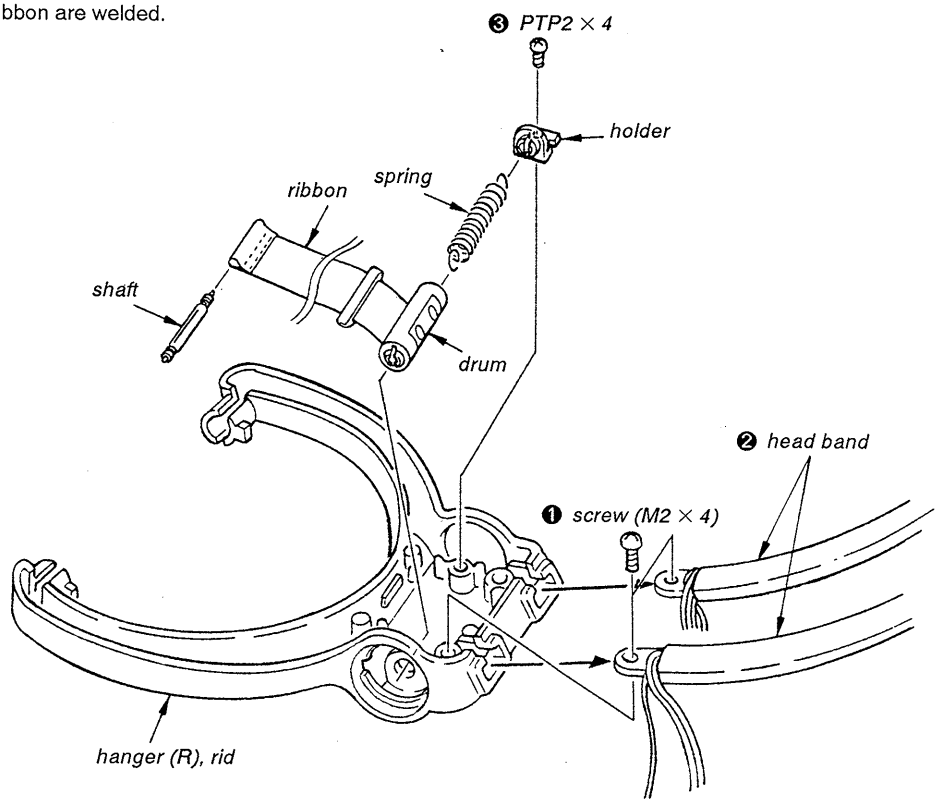
– L-CH –

Note: The installation location of ray catcher window (F) and ray catcher window (R) on R-ch is opposite.



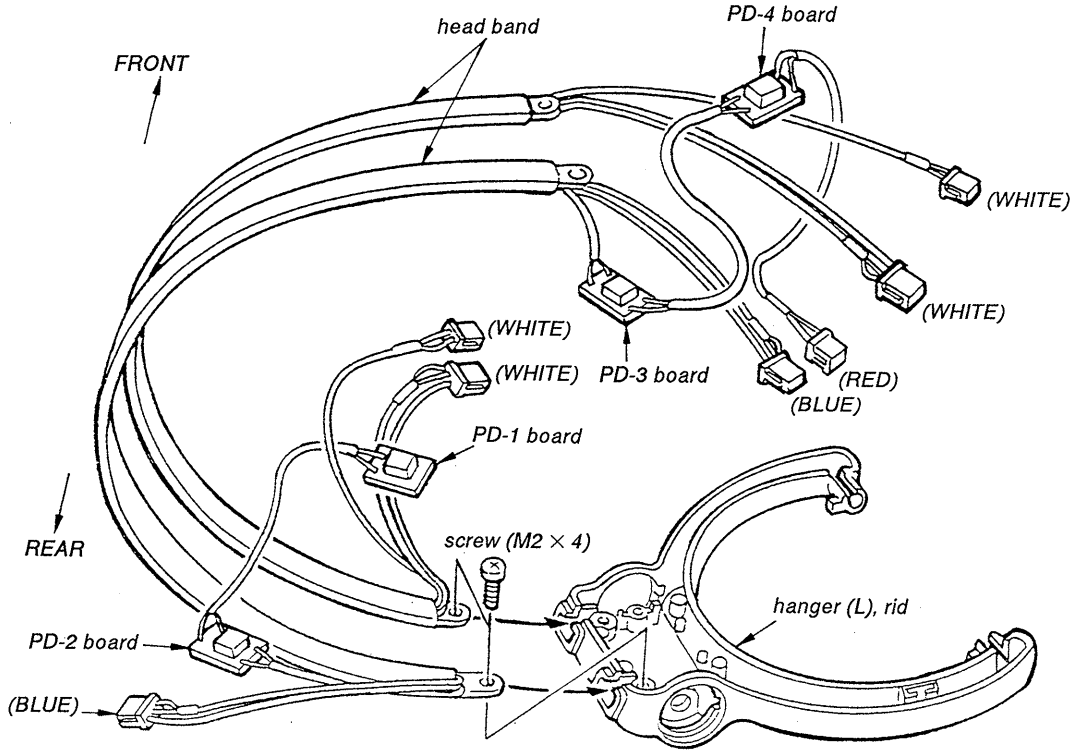
HANGER

Note: Drum and ribbon are welded.



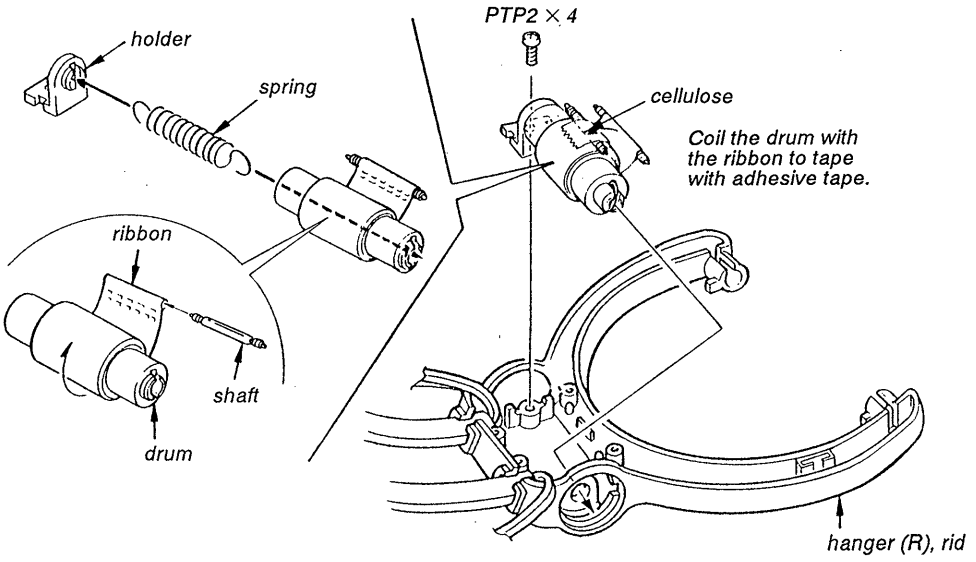
NOTE ON ASSEMBLING

CONNECTOR CLASSIFICATION



DRUM

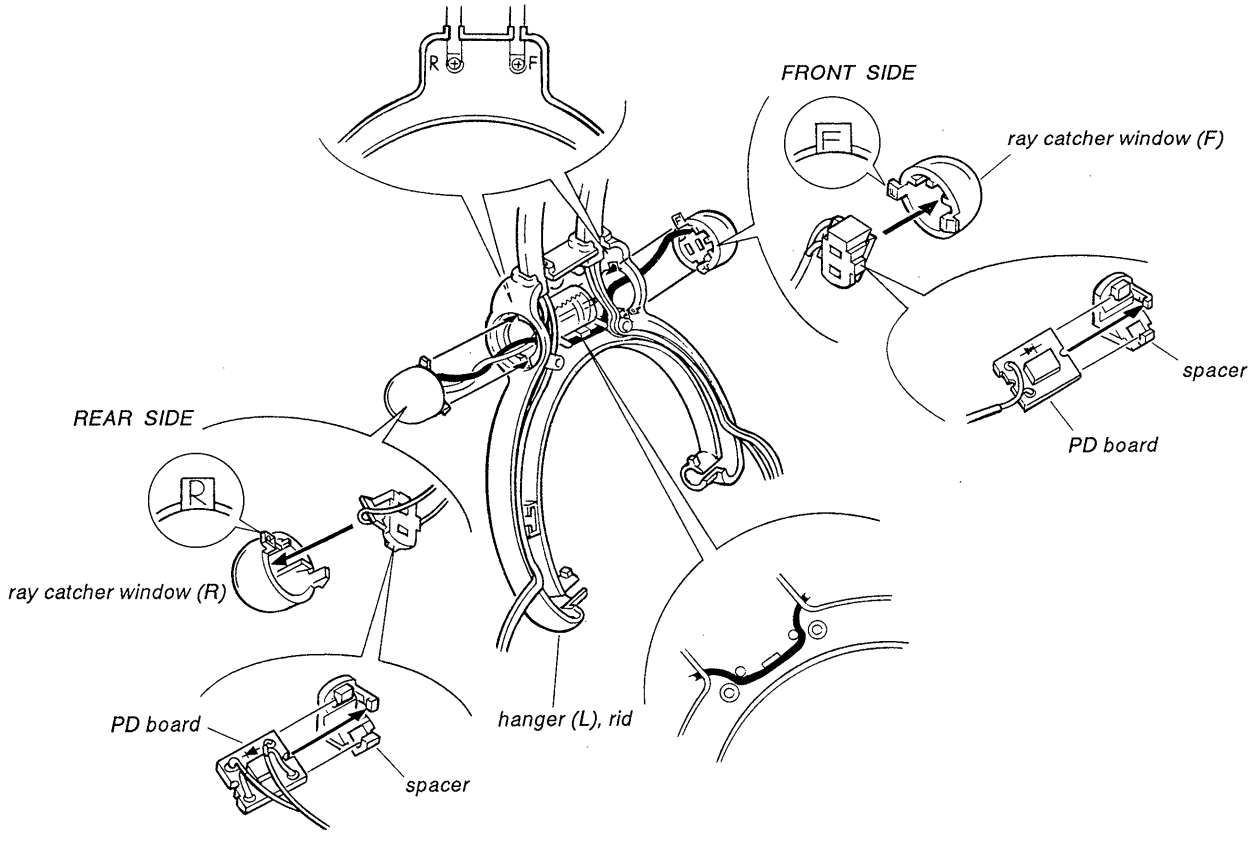
Note: Ribbon should be coiled to be incorporated as shown below.



RAY CATCHER WINDOW

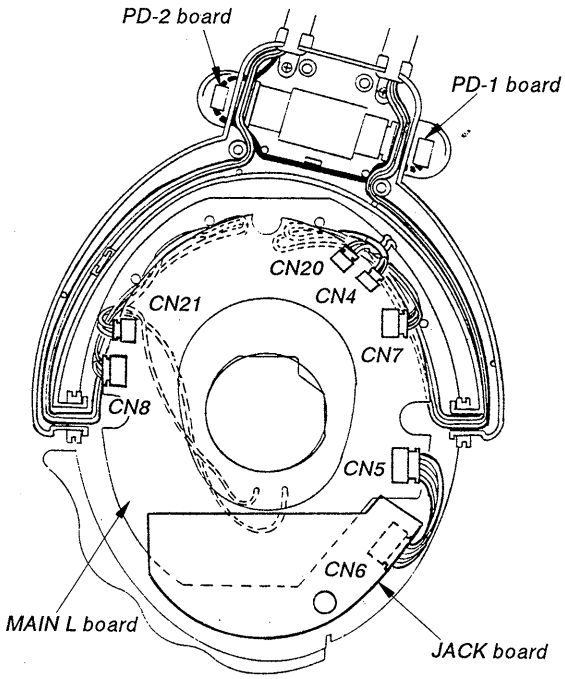
– L-CH –

Note: The installation location of ray catcher window (F) and ray catcher window (R) on R-CH is opposite.

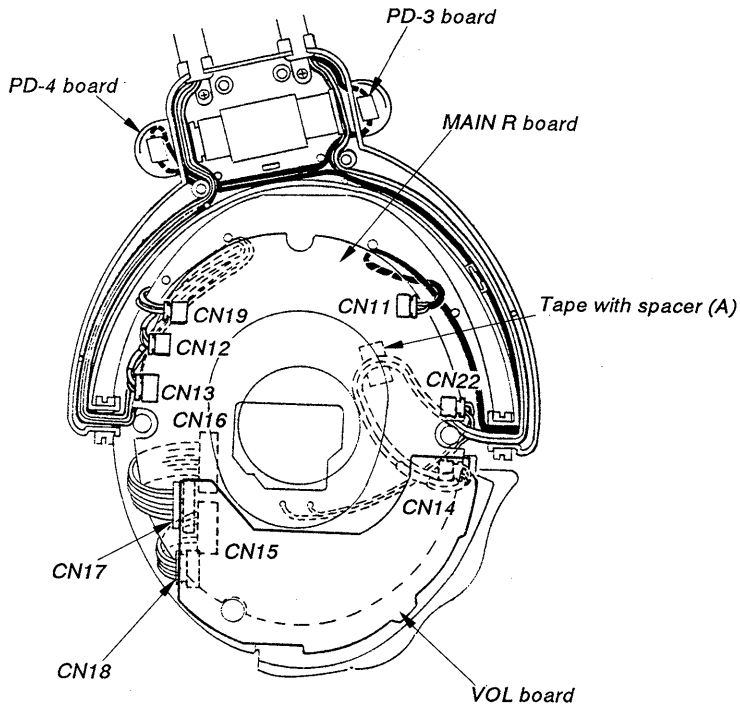


LEAD WIRE ARRANGEMENT

– L-CH –



– R-CH –



SECTION 3
ELECTRICAL ADJUSTMENT

Note:

1. On adjusting, use the transmitter (TMR-IF33) as a jig.
2. L-ch adjustment should be completed before performing R-ch adjustment.

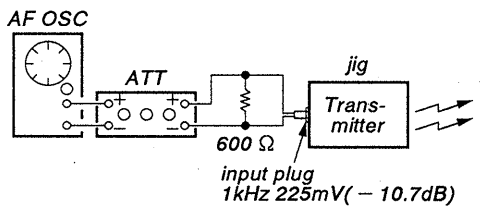
0 dB = 0.775 V

Procedure:

1. Connect a distortion meter to TP44, 45 (Lch) or TP53, 54 (Rch).
2. Turn on the power switch (S1).
3. Adjust with LV35 (L-ch) or LV36 (R-ch) to minimize the reading on distorsion meter.

[Tuning Adjustment]

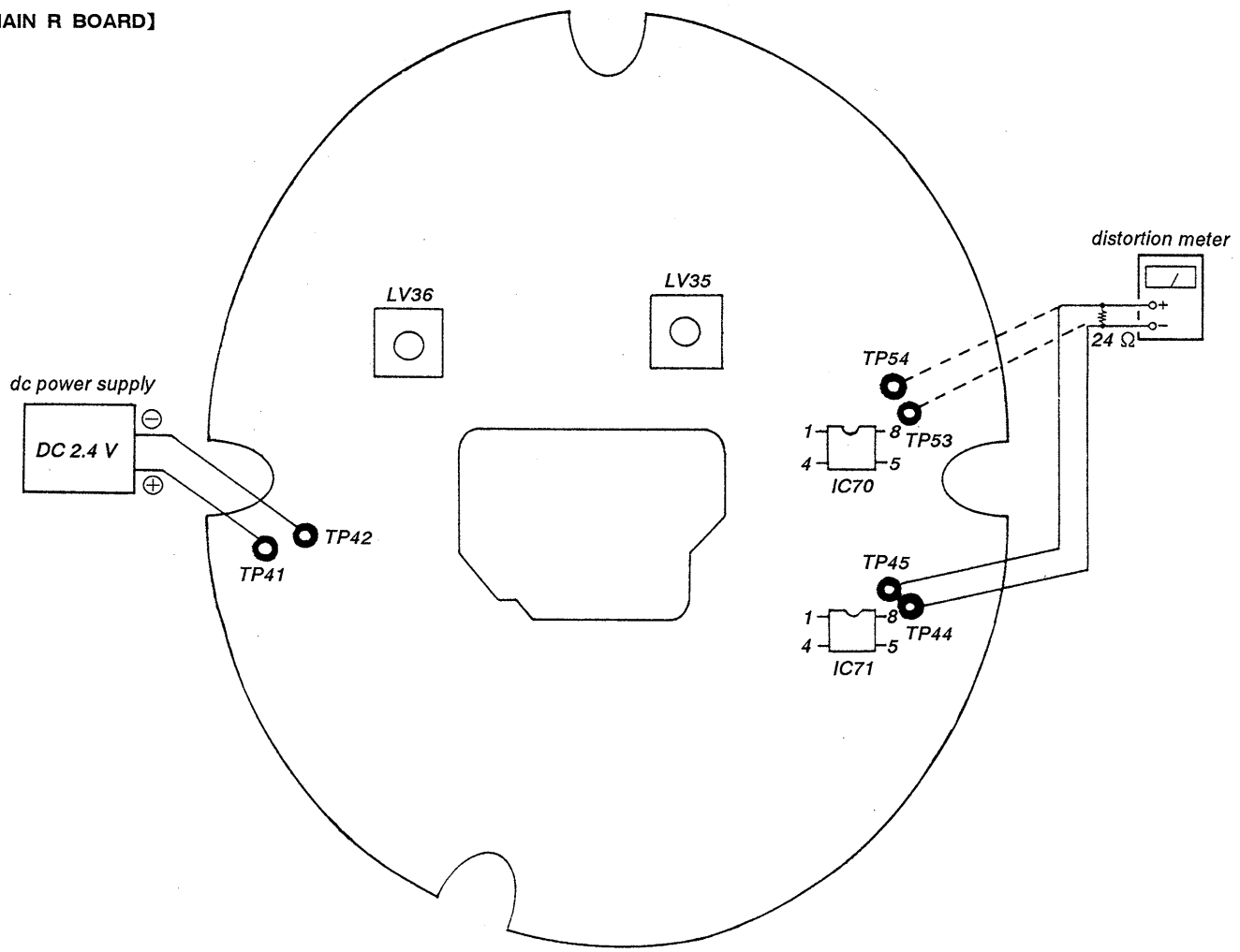
Preparation:



1. Feed a signal to jig (TMR-IF33) and connect a power supply.
2. Volume control: Optional position.
3. Apply DC 2.4 V between TP41 and TP42.

• Connection and Adjustment Location

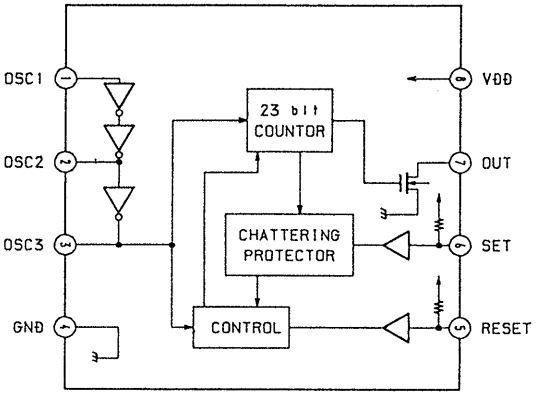
[MAIN R BOARD]



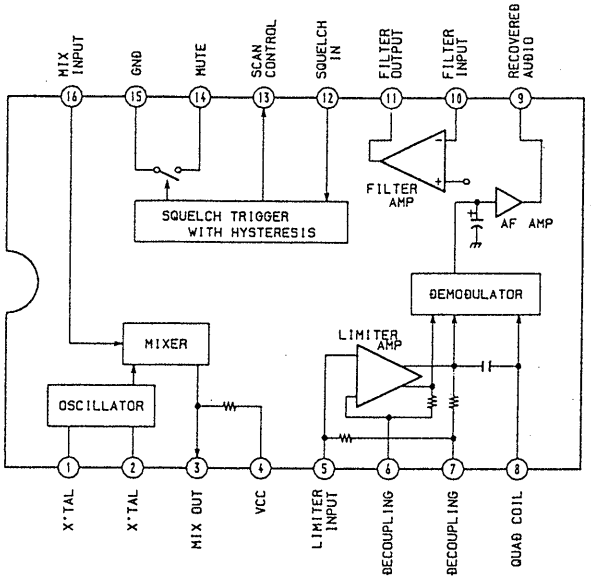
SECTION 4
DIAGRAMS

• IC Block Diagrams

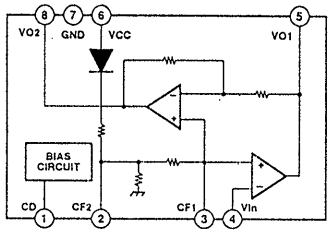
IC1, 2 BU2305BF



IC30, 31 MC3361BD

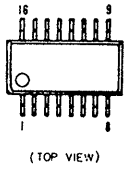


IC70, 71 MC34119



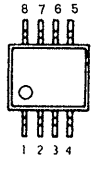
• Semiconductor Lead Layouts

MC3361BD



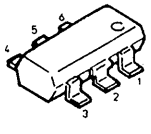
(TOP VIEW)

MC34119-ML

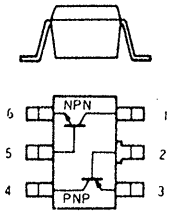


(TOP VIEW)

XN4501

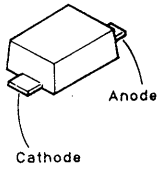


XN4608

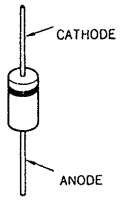


2SB1202FAT

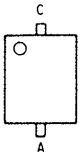
MA77
MA729



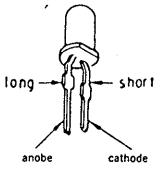
PP601-1



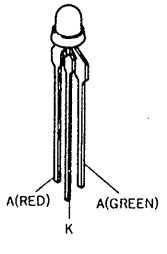
11E2



SLP-181B



SPR-39MVWF

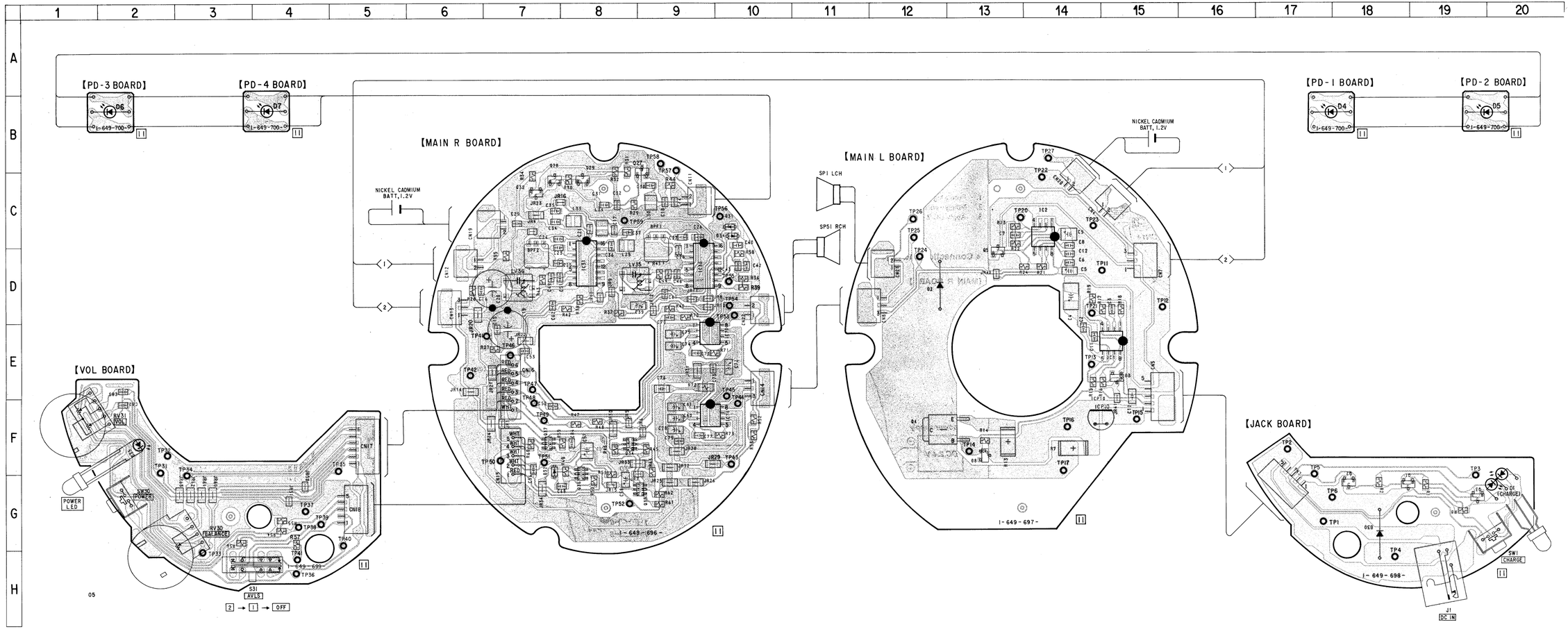


4-1. PRINTED WIRING BOARDS

• See page 9 for Semiconductor Lead Layouts.

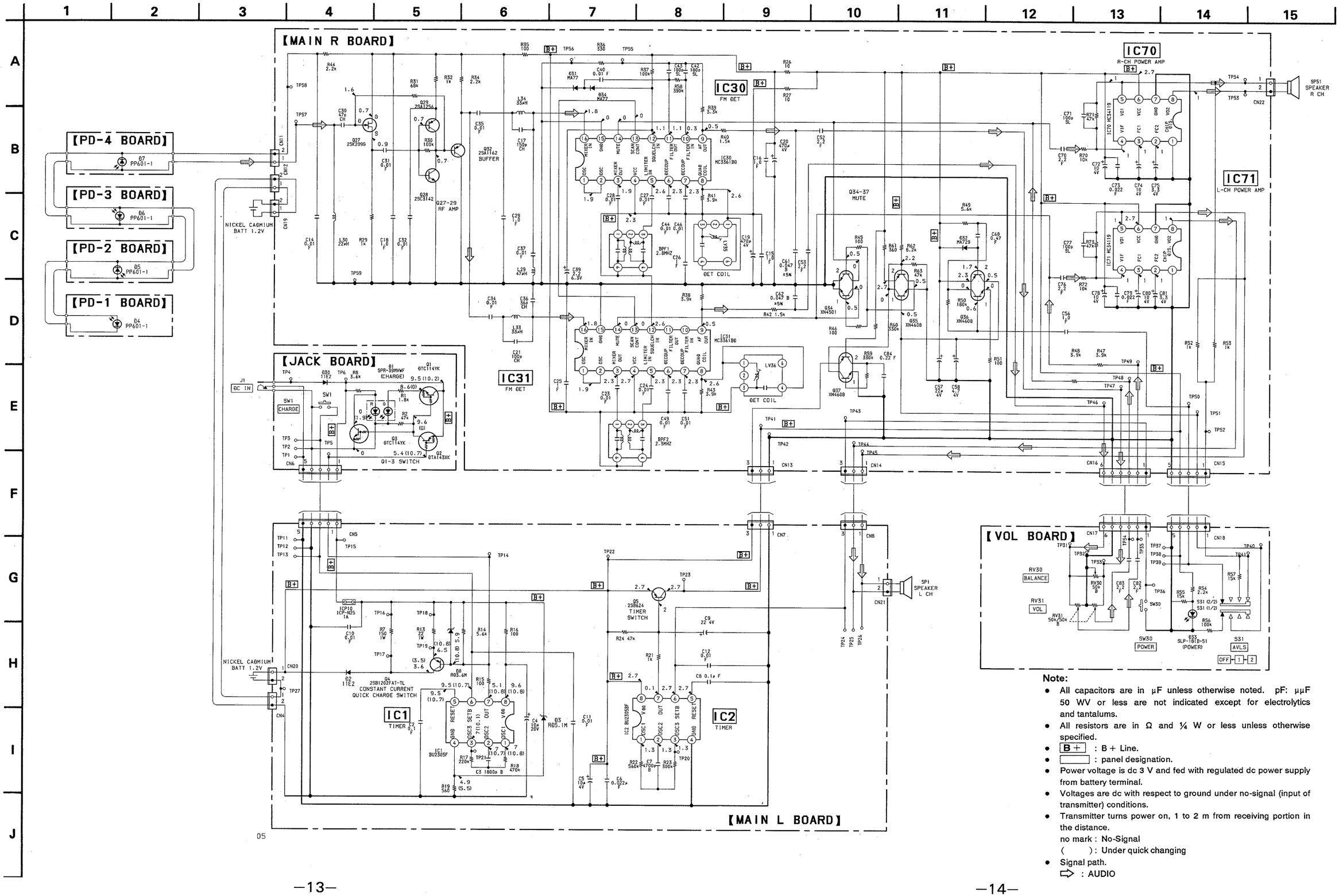
• Semiconductor Location

Ref. No.	Location
D1	G-20
D2	D-12
D3	E-15
D4	B-18
D5	B-20
D6	B-2
D7	B-4
D8	F-13
D30	G-18
D31	C-10
D32	F-7
D33	F-2
D34	C-10
IC1	E-15
IC2	C-14
IC30	D-9
IC31	D-8
IC70	E-9
IC71	F-9
Q1	G-18
Q2	G-18
Q3	G-19
Q4	F-12
Q5	D-13
Q27	B-9
Q28	C-7
Q29	C-9
Q32	C-7
Q34	F-8
Q35	G-9
Q36	F-8
Q37	F-7



Note:
- ○—— : parts extracted from the component side.
- ▒▒▒ : Pattern on the side which is seen.

4-2. SCHEMATIC DIAGRAM • See page 9 for IC Block Diagrams.



Note:

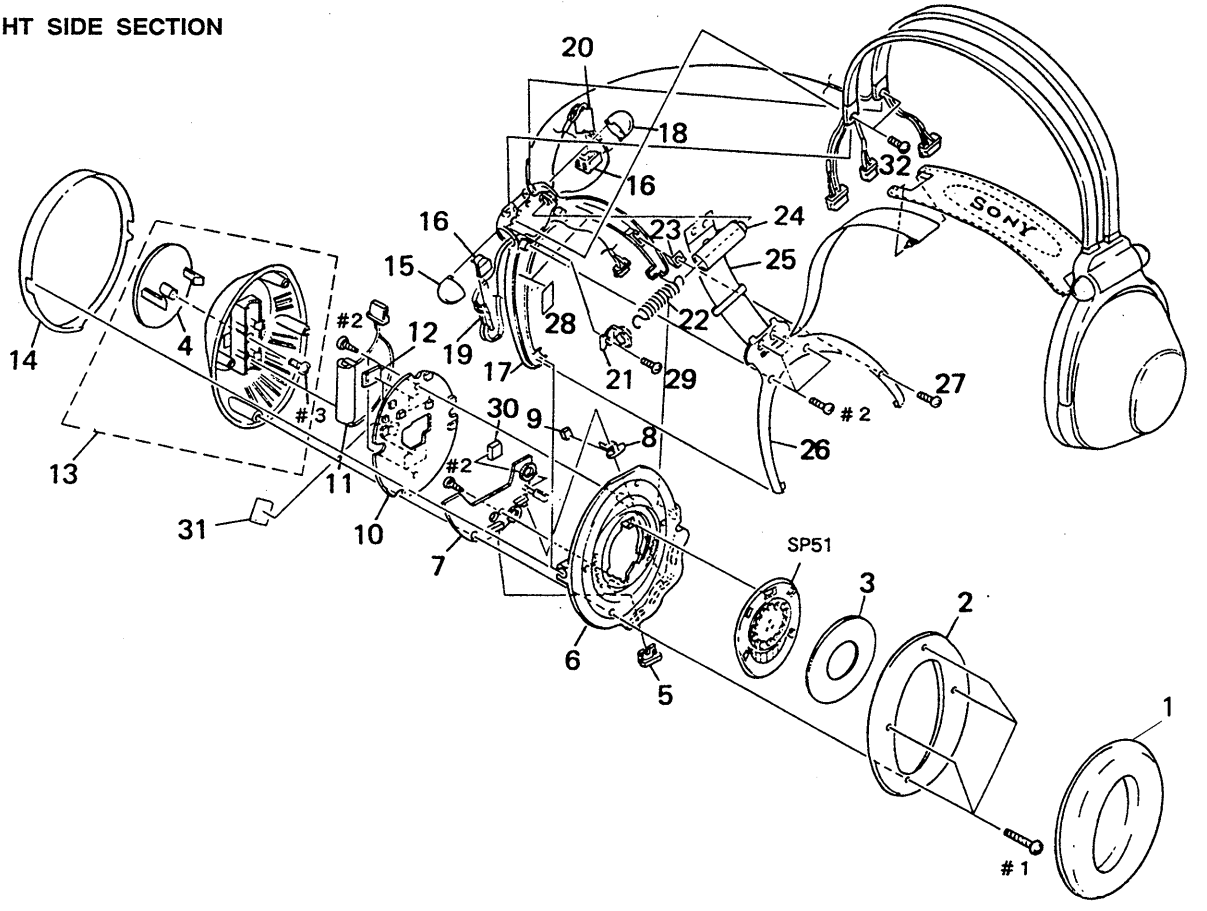
- All capacitors are in µF unless otherwise noted. pF: µµF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- B + : B + Line.
- [ ] : panel designation.
- Power voltage is dc 3 V and fed with regulated dc power supply from battery terminal.
- Voltages are dc with respect to ground under no-signal (input of transmitter) conditions.
- Transmitter turns power on, 1 to 2 m from receiving portion in the distance.
  no mark : No-Signal
  ( ) : Under quick changing
- Signal path.
  ⇨ : AUDIO

SECTION 5
EXPLODED VIEWS

NOTE:

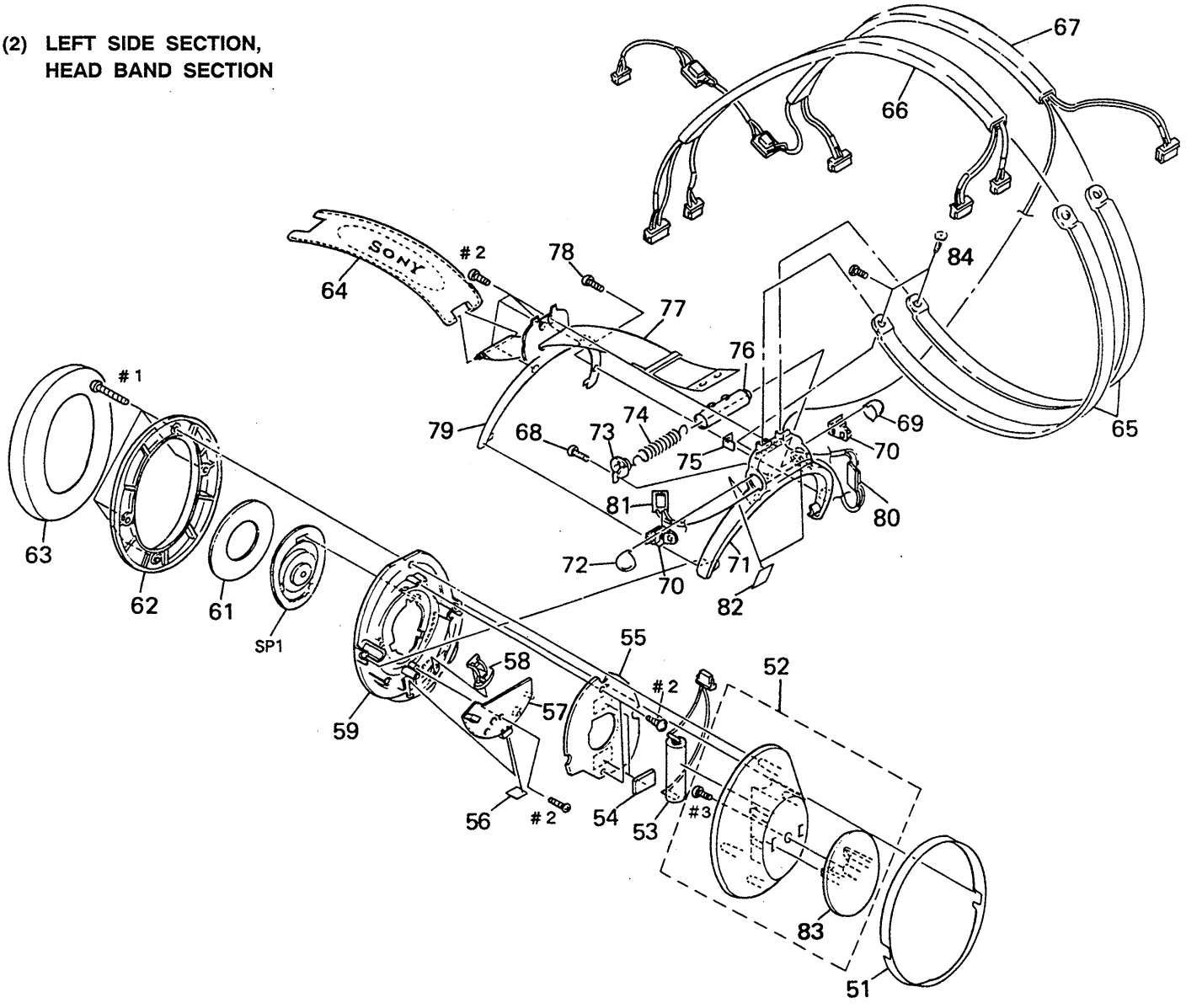
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

(1) RIGHT SIDE SECTION



Ref. No.	Part No.	Description	Remark
1	4-962-854-01	PAT, EAR	
2	4-962-879-01	FLANGE (R)	
3	4-962-859-01	REGISTER	
4	4-962-869-11	CAP	
5	4-962-587-01	KNOB (AVLS)	
6	X-4944-396-1	PLATE (R) ASSY, FRONT	
* 7	A-4542-160-A	VOL. BOARD, COMPLETE	
8	4-962-586-01	BUTTON (POWER)	
9	9-911-844-XX	SPACER (A)	
* 10	A-4542-159-A	MAIN (R) BOARD, COMPLETE	
11	1-528-481-11	BATTERY, NICKEL CADMIUM	
12	9-911-845-XX	RUBBER (A), ABSORBENT	
13	X-4944-398-1	HOUSING (R) ASSY	
14	4-962-871-01	MOLE (R)	
15	4-962-861-01	WINDOW (R), RAY CATCHER	
16	4-945-229-01	SPACER	
17	4-962-864-01	HANGER (R)	
18	4-962-860-01	WINDOW (F), RAY CATCHER	
* 19	1-649-700-11	PD-4 BOARD	
* 20	1-649-700-11	PD-3 BOARD	
21	4-962-877-01	HOLDER (FREE ADJUSTMENT)	
22	4-962-858-01	SPRING (R)	
* 23	4-964-225-01	BRACKET	
24	4-962-878-01	DRUM	
25	4-962-855-01	RIBBON	
26	4-962-866-01	HANGER (R), LID	
27	3-318-382-21	SCREW (1.7X3), TAPPING	
28	3-831-441-11	CUSHION (T)	
29	3-942-321-01	TAPPING SCREW, 2X4	
30	9-911-840-XX	CUSHION, HANDLE	
* 31	3-332-189-01	SPACER (A)	
32	3-742-886-01	SCREW (M2X4)	
SP51	1-505-136-11	DRIVER (030F023B, K)	

(2) LEFT SIDE SECTION, HEAD BAND SECTION



Ref. No.	Part No.	Description	Remark
51	4-962-870-01	MOLE (L)	
52	X-4944-397-1	HOUSING (L) ASSY	
53	1-528-481-11	BATTERY, NICKEL CADMIUM	
54	9-911-845-XX	RUBBER (A), ABSORBENT	
* 55	A-4542-158-A	MAIN (L) BOARD, COMPLETE	
* 56	3-341-453-01	CUSHION	
* 57	1-649-698-11	JACK BOARD	
58	4-962-588-01	BUTTON (CHARGE)	
59	X-4944-395-1	PLATE (L) ASSY, FRONT	
61	4-962-859-01	REGISTER	
62	4-962-874-01	FLANGE (L)	
63	4-962-854-01	PAT, EAR	
64	4-962-856-01	CUSHION, HEAD	
65	4-962-862-01	BAND, HEAD	
66	X-4944-630-1	TUBE (F) ASSY	
67	X-4944-631-1	TUBE (R) ASSY	
68	3-942-321-01	TAPPING SCREW, 2X4	

Ref. No.	Part No.	Description	Remark
69	4-962-861-01	WINDOW (R), RAY CATCHER	
70	4-945-229-01	SPACER	
71	4-962-863-01	HANGER (L)	
72	4-962-860-01	WINDOW (F), RAY CATCHER	
73	4-962-877-01	HOLDER (FREE ADJUSTMENT)	
74	4-962-853-01	SPRING (L)	
* 75	4-964-225-01	BRACKET	
76	4-962-878-01	DRUM	
77	4-962-855-01	RIBBON	
78	3-318-382-21	SCREW (1.7X3), TAPPING	
79	4-962-865-01	HANGER (L), LID	
* 80	1-649-700-11	PD-2 BOARD	
* 81	1-649-700-11	PD-1 BOARD	
82	3-831-441-11	CUSHION (T)	
83	4-962-869-01	CAP	
84	3-742-886-01	SCREW (M2X4)	
SP1	1-505-136-11	DRIVER (030F023B, K)	

SECTION 6
ELECTRICAL PARTS LIST

JACK | MAIN (L)

NOTE:

- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA ..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

When indicating parts by reference number, please include the board.

Ref. No.	Part No.	Description			Remark
*	1-649-698-11	JACK BOARD			
		**********			
		< CONNECTOR >			
CN6	1-569-775-21	PIN, CONNECTOR 5P			
		< DIODE >			
D1	8-719-028-30	DIODE SPR-39MVWF			
D30	8-719-200-02	DIODE 10E2			
		< JACK >			
J1	1-569-966-11	JACKE, DC (DC IN)			
		< TRANSISTOR >			
Q1	8-729-900-52	TRANSISTOR DTC114YK			
Q2	8-729-906-45	TRANSISTOR DTA143XK			
Q3	8-729-900-52	TRANSISTOR DTC114YK			
		< RESISTOR >			
R1	1-216-055-00	METAL CHIP	1.8K	5%	1/10W
R2	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R8	1-216-062-00	METAL CHIP	3.6K	5%	1/10W
		< SWITCH >			
SW1	1-572-499-11	SWITCH, TACTIL (CHARGE)			
**********					
*	A-4542-158-A	MAIN (L) BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C2	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C3	1-163-012-00	CERAMIC CHIP	0.0018uF	10%	50V
C4	1-135-159-21	TANTALUM CHIP	10uF	10%	20V
C5	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C6	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C7	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C8	1-163-038-00	CERAMIC CHIP	0.1uF		25V
C9	1-135-202-21	TANTAL. CHIP	22uF	10%	4V
C10	1-163-059-00	CERAMIC CHIP	0.01uF	10%	50V
C11	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C12	1-163-031-11	CERAMIC CHIP	0.01uF		50V
		< CONNECTOR >			
* CN4	1-580-055-21	PIN, CONNECTOR 2P			
CN5	1-569-775-21	PIN, CONNECTOR 5P			
* CN7	1-580-056-21	PIN, CONNECTOR 3P			
* CN8	1-580-056-21	PIN, CONNECTOR (SMD) 3P			
* CN20	1-580-055-21	PIN, CONNECTOR 2P			
CN21	1-580-055-21	PIN, CONNECTOR 2P			
		< DIODE >			
D2	8-719-200-02	DIODE 10E2			
D3	8-719-105-82	DIODE RD5.1M-B2			
D8	8-719-105-52	DIODE RD3.6M-B2			
		< IC >			
IC1	8-759-044-56	IC BU2305F			
IC2	8-759-044-56	IC BU2305F			
		< IC LINK >			
ICP10	1-532-637-00	LINK, IC	1.0A		
		< JUMPER RESISTOR >			
JR40	1-216-295-00	METAL CHIP	0	5%	1/10W
JR41	1-216-295-00	METAL CHIP	0	5%	1/10W
		< TRANSISTOR >			
Q4	8-729-822-84	TRANSISTOR 2SB1202FAST			
Q5	8-729-162-45	TRANSISTOR 2SB624-BV5			
		< RESISTOR >			
R7	1-218-628-11	METAL CHIP	150	5%	1W
R13	1-218-618-11	METAL CHIP	22	5%	1W
R14	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R15	1-216-025-00	METAL CHIP	100	5%	1/10W
R16	1-216-025-00	METAL CHIP	100	5%	1/10W

MAIN (L) MAIN (R)

Ref. No.	Part No.	Description			Remark
R17	1-216-105-00	METAL CHIP	220K	5%	1/10W
R18	1-216-113-00	METAL CHIP	470K	5%	1/10W
R19	1-216-043-00	METAL CHIP	560	5%	1/10W
R21	1-216-049-00	METAL CHIP	1K	5%	1/10W
R22	1-216-115-00	METAL CHIP	560K	5%	1/10W
R23	1-216-108-00	METAL GLAZE	300K	5%	1/10W
R24	1-216-089-91	METAL GLAZE	47K	5%	1/10W
**********					
*	A-4542-159-A	MAIN (R) BOARD, COMPLETE			
		**********			
		< BAND PASS FILTER >			
BPF1	1-239-763-11	FILTER, BAND PASS (2.8MHz)			
BPF2	1-239-762-11	FILTER, BAND PASS (2.8MHz)			
		< CAPACITOR >			
C14	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C15	1-164-346-11	CERAMIC CHIP	1uF		16V
C16	1-164-346-11	CERAMIC CHIP	1uF		16V
C17	1-163-121-00	CERAMIC CHIP	150PF	5%	50V
C18	1-164-346-11	CERAMIC CHIP	1uF		16V
C19	1-104-483-11	ELECT	470uF	20%	4V
C20	1-104-483-11	ELECT	470uF	20%	4V
C21	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C23	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C24	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C25	1-164-346-11	CERAMIC CHIP	1uF		16V
C26	1-164-346-11	CERAMIC CHIP	1uF		16V
C27	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C28	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C29	1-164-346-11	CERAMIC CHIP	1uF		16V
C30	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C31	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C32	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C34	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C35	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C36	1-163-106-00	CERAMIC CHIP	36PF	5%	50V
C37	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C39	1-135-149-21	TANTALUM CHIP	2.2uF	10%	10V
C40	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C42	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C43	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C44	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C46	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C49	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C51	1-163-031-11	CERAMIC CHIP	0.01uF		50V
C52	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C53	1-164-505-11	CERAMIC CHIP	2.2uF		16V

Ref. No.	Part No.	Description			Remark
C56	1-164-346-11	CERAMIC CHIP	1uF		16V
C57	1-135-202-21	TANTAL. CHIP	22uF	10%	4V
C58	1-135-151-21	TANTALUM CHIP	4.7uF	10%	4V
C61	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C62	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C68	1-164-005-11	CERAMIC CHIP	0.47uF		25V
C70	1-164-505-11	CERAMIC CHIP	2.2uF		16V
C71	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C72	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C73	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C74	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C75	1-135-180-21	TANTALUM CHIP	3.3uF	10%	10V
C76	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C77	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C78	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C79	1-163-033-00	CERAMIC CHIP	0.022uF		50V
C80	1-135-201-11	TANTALUM CHIP	10uF	20%	4V
C81	1-135-180-21	TANTALUM CHIP	3.3uF	10%	10V
C84	1-164-222-11	CERAMIC CHIP	0.22uF		25V
		< CONNECTOR >			
CN11	1-580-055-21	PIN, CONNECTOR 2P			
* CN12	1-580-055-21	PIN, CONNECTOR 2P			
* CN13	1-580-056-21	PIN, CONNECTOR 3P			
* CN14	1-580-056-21	PIN, CONNECTOR (SMD) 3P			
* CN19	1-580-055-21	PIN, CONNECTOR 2P			
CN22	1-580-055-21	PIN, CONNECTOR 2P			
		< DIODE >			
D31	8-719-421-40	DIODE MA77			
D32	8-719-420-51	DIODE MA729			
D34	8-719-421-40	DIODE MA77			
		< IC >			
IC30	8-759-056-30	IC MC3361BD			
IC31	8-759-056-30	IC MC3361BD			
IC70	8-759-030-76	IC MC34119-ML			
IC71	8-759-030-76	IC MC34119-ML			
		< JUMPER RESISTOR >			
JR3	1-216-295-00	METAL CHIP	0	5%	1/10W
JR4	1-216-295-00	METAL CHIP	0	5%	1/10W
JR5	1-216-295-00	METAL CHIP	0	5%	1/10W
JR6	1-216-295-00	METAL CHIP	0	5%	1/10W
JR7	1-216-295-00	METAL CHIP	0	5%	1/10W
JR8	1-216-295-00	METAL CHIP	0	5%	1/10W
JR9	1-216-295-00	METAL CHIP	0	5%	1/10W
JR10	1-216-295-00	METAL CHIP	0	5%	1/10W

Ref. No.	Part No.	Description			Remark
JR11	1-216-295-00	METAL CHIP	0	5%	1/10W
JR12	1-216-295-00	METAL CHIP	0	5%	1/10W
JR13	1-216-295-00	METAL CHIP	0	5%	1/10W
JR14	1-216-296-00	METAL CHIP	0	5%	1/8W
JR15	1-216-295-00	METAL CHIP	0	5%	1/10W
JR16	1-216-295-00	METAL CHIP	0	5%	1/10W
JR20	1-216-296-00	METAL CHIP	0	5%	1/8W
JR21	1-216-296-00	METAL CHIP	0	5%	1/8W
JR22	1-216-296-00	METAL CHIP	0	5%	1/8W
JR23	1-216-296-00	METAL CHIP	0	5%	1/8W
JR24	1-216-296-00	METAL CHIP	0	5%	1/8W
JR25	1-216-296-00	METAL CHIP	0	5%	1/8W
JR26	1-216-296-00	METAL CHIP	0	5%	1/8W
JR28	1-216-296-00	METAL CHIP	0	5%	1/8W
JR29	1-216-296-00	METAL CHIP	0	5%	1/8W
JR30	1-216-296-00	METAL CHIP	0	5%	1/8W
JR31	1-216-296-00	METAL CHIP	0	5%	1/8W
JR32	1-216-296-00	METAL CHIP	0	5%	1/8W
JR33	1-216-296-00	METAL CHIP	0	5%	1/8W
JR34	1-216-296-00	METAL CHIP	0	5%	1/8W
		< COIL >			
L29	1-410-389-31	INDUCTOR CHIP	47uH		
L30	1-410-385-11	INDUCTOR CHIP	22uH		
L33	1-410-387-11	INDUCTOR CHIP	33uH		
L34	1-410-387-11	INDUCTOR CHIP	33uH		
		< VARIABLE COIL >			
LV35	1-406-916-11	COIL (DET)			
LV36	1-406-915-11	COIL (DET)			
		< TRANSISTOR >			
Q27	8-729-220-93	TRANSISTOR	2SK209-G		
Q28	8-729-809-77	TRANSISTOR	2SC3142-J4		
Q29	8-729-024-13	TRANSISTOR	2SA1256-E4		
Q32	8-729-216-22	TRANSISTOR	2SA1162-G		
Q34	8-729-402-81	TRANSISTOR	XN4501		
Q35	8-729-402-16	TRANSISTOR	XN4608		
Q36	8-729-402-16	TRANSISTOR	XN4608		
Q37	8-729-402-16	TRANSISTOR	XN4608		
		< RESISTOR >			
R26	1-216-001-00	METAL CHIP	10	5%	1/10W
R27	1-216-001-00	METAL CHIP	10	5%	1/10W
R29	1-216-049-00	METAL CHIP	1K	5%	1/10W
R30	1-216-097-00	METAL CHIP	100K	5%	1/10W
R31	1-216-093-00	METAL CHIP	68K	5%	1/10W
R32	1-216-049-00	METAL CHIP	1K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R34	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R35	1-216-025-00	METAL CHIP	100	5%	1/10W
R36	1-216-037-00	METAL CHIP	330	5%	1/10W
R37	1-216-097-00	METAL CHIP	100K	5%	1/10W
R38	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R39	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R40	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R41	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R42	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R43	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R44	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R45	1-216-025-00	METAL CHIP	100	5%	1/10W
R46	1-216-025-00	METAL CHIP	100	5%	1/10W
R47	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R48	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R49	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R50	1-216-103-00	METAL GLAZE	180K	5%	1/10W
R51	1-216-025-00	METAL CHIP	100	5%	1/10W
R52	1-216-049-00	METAL CHIP	1K	5%	1/10W
R53	1-216-049-00	METAL CHIP	1K	5%	1/10W
R58	1-216-111-00	METAL CHIP	390K	5%	1/10W
R59	1-216-109-00	METAL CHIP	330K	5%	1/10W
R60	1-216-109-00	METAL CHIP	330K	5%	1/10W
R61	1-216-038-00	METAL CHIP	360	5%	1/10W
R62	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R63	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R70	1-216-073-00	METAL CHIP	10K	5%	1/10W
R71	1-216-089-00	METAL CHIP	47K	5%	1/10W
R72	1-216-222-00	METAL GLAZE	10K	5%	1/8W
R73	1-216-089-00	METAL CHIP	47K	5%	1/10W

****

* 1-649-700-11 PD-1 BOARD
****

< DIODE >

D4 8-719-975-20 DIODE PP601-1

****

* 1-649-700-11 PD-2 BOARD
****

< DIODE >

D5 8-719-975-20 DIODE PP601-1

****

PD-3 **PD-4** **VOL**

Ref. No.	Part No.	Description	Remark
*	1-649-700-11	PD-3 BOARD	
		**********	
		< DIODE >	
D6	8-719-975-20	DIODE PP601-1	
**********			
*	1-649-700-11	PD-4 BOARD	
		**********	
		< DIODE >	
D7	8-719-975-20	DIODE PP601-1	
**********			
*	A-4542-160-A	VOL. BOARD, COMPLETE	
		********	
		< CAPACITOR >	
C82	1-164-505-11	CERAMIC CHIP 2.2uF	16V
C83	1-164-505-11	CERAMIC CHIP 2.2uF	16V
		< CONNECTOR >	
CN17	1-580-789-21	PIN, CONNECTOR (SMD) 6P	
CN18	1-569-775-21	PIN, CONNECTOR 5P	
		< DIODE >	
D33	8-719-038-29	DIODE SLP-181B-51 (POWER)	
		< JUMPER RESISTOR >	
JR50	1-216-295-00	METAL CHIP 0 5%	1/10W
JR51	1-216-295-00	METAL CHIP 0 5%	1/10W
JR60	1-216-296-00	METAL CHIP 0 5%	1/8W
JR61	1-216-296-00	METAL CHIP 0 5%	1/8W
JR62	1-216-296-00	METAL CHIP 0 5%	1/8W
JR63	1-216-296-00	METAL CHIP 0 5%	1/8W
		< RESISTOR >	
R54	1-216-057-00	METAL CHIP 2.2K 5%	1/10W
R55	1-216-077-00	METAL CHIP 15K 5%	1/10W
R56	1-216-097-00	METAL CHIP 100K 5%	1/10W
R57	1-216-077-00	METAL CHIP 15K 5%	1/10W
		< VARIABLE RESISTOR >	
RV30	1-223-516-11	RES, VAR, CARBON 50K (BALANCE)	
RV31	1-223-517-11	RES, VAR, CARBON 50K/50K (VOL)	

Ref. No.	Part No.	Description	Remark
		< SWITCH >	
S31	1-554-843-11	SWITCH, SLIDE (AVLS)	
SW30	1-572-499-11	SWITCH, TACTIL (POWER)	
**********			
		MISCELLANEOUS	
		**********	
11	1-528-481-11	BATTERY, NICKEL CADMIUM	
53	1-528-481-11	BATTERY, NICKEL CADMIUM	
SP1	1-505-136-11	DRIVER (030F023B, K)	
SP51	1-505-136-11	DRIVER (030F023B, K)	
**********			
		ACCESSORIES & PACKING MATERIALS	
		**********	
⚠	1-465-817-31	ADAPTOR, AC (AC-96NES) (AEP, UK)	
⚠	1-693-029-11	ADAPTOR, AC (AC-96NB) (US, Canadian)	
⚠	1-693-130-11	ADAPTOR, AC (AC-905) (E, Tourist)	
	3-757-733-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, SPANISH)	
	3-757-733-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH) (AEP, UK)	
	3-757-733-51	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE) (AEP, UK)	
	3-954-355-01	LABEL (C), NI-CD RECYCLE (US, Canadian)	
*	4-963-221-01	SPACER, HEADPHONE	
*	4-963-224-01	INDIVIDUAL CARTON (US, Canadian)	
*	4-963-224-11	INDIVIDUAL CARTON (AEP, E, UK, Tourist)	
**********			
		**********	
		HARDWARE LIST	
		**********	
#1	7-685-137-19	SCREW +P 2.6X14 TYPE2 SLIT	
#2	7-685-104-19	SCREW +P 2X6 TYPE2 SLIT	
#3	7-685-104-21	SCREW +P 2X6 TYPE2 SLIT	

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.	Les composants identifiés par une marque ⚠ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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General Audio Group

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SONY
SERVICE MANUAL

US Model
Canadian Model
AEP Model
UK Model
E Model
Tourist Model

CORRECTION-1

Correct your service manual as shown below.

☛ : **Indicates corrected portion**

Page	Incorrect		Correct	
	Part No.	Description	Part No.	Description
	———		⚠1-466-881-11	ADAPTOR, AC(AC-96NN)(UK) ☛
	⚠1-465-817-31	ADAPTOR, AC(AC-96NES)(AEP, UK)	⚠1-465-817-31	ADAPTOR, AC(AC-96NES)(AEP) ☛
20	3-757-733-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH)(AEP, UK)	3-757-733-41	MANUAL, INSTRUCTION (GERMAN, DUTCH, SWEDISH)(AEP) ☛
	3-757-733-51	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE)(AEP, UK)	3-757-733-51	MANUAL, INSTRUCTION (ITALIAN, PORTUGUESE)(AEP) ☛
	———		1-569-008-11	ADAPTOR, CONVERSION 2P(E, Tourist) ☛

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